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## **Contributions on vertebrate paleontology in Venezuela Preface**

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DOI: <https://doi.org/10.1007/bf02988401>

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ZORA URL: <https://doi.org/10.5167/uzh-156682>

Journal Article

Published Version

Originally published at:

Sánchez-Villagra, Marcelo R; Aguilera, Orangel A (2008). Contributions on vertebrate paleontology in Venezuela Preface. *PalZ Paläontologische Zeitschrift*, 82(2):103-104.

DOI: <https://doi.org/10.1007/bf02988401>

## Contributions on vertebrate paleontology in Venezuela

### Preface

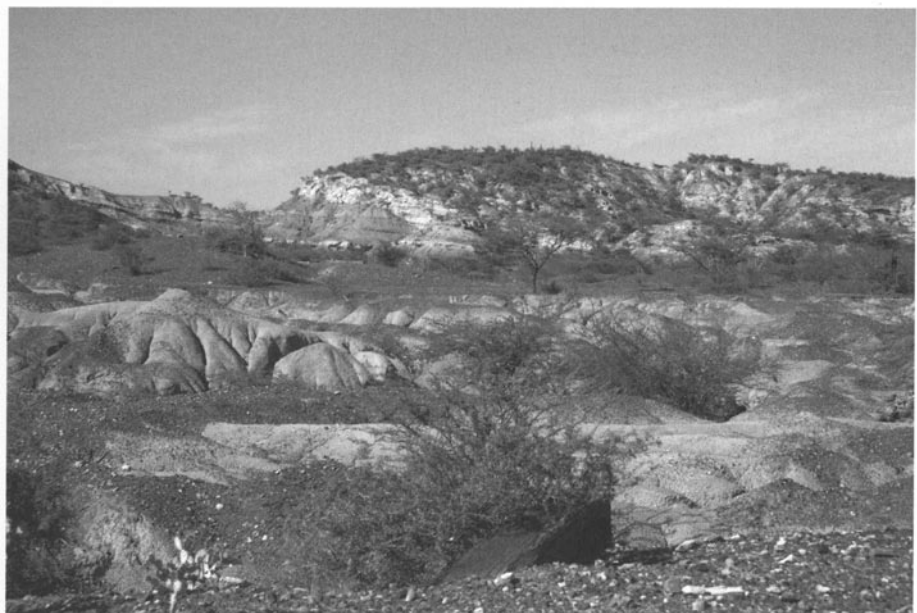
MARCELO R. SÁNCHEZ-VILLAGRA, Zürich & ORANGEL A. AGUILERA, Coro

Venezuela, located in the septentrional area of South America in the Caribbean, is considered one of the “megadiverse” countries in the world, belonging to the list of 15 countries with highest species diversity (RODRÍGUEZ & ROJAS-SUÁREZ 1999), including vertebrates of all kinds, many currently being described (e.g., LEW et al. 2006). This richness is in contrast with one of the poorest known vertebrate fossil records in the continent. This is regrettable, as Venezuela has been hypothesized to have been at critical geographical positions to understand biogeographic and evolutionary patterns at different times during the Phanerozoic (e.g., ITURRALDE-VINENT & MACPHEE 1999; YOUNG & MODY 2002). Venezuela is situated in tropical America, and the tropics have been hypothesized as being cradle and museum for evolution: centers of origin of vertebrate diversity and reservoirs of basal clades extinct in higher latitudes (JABLONSKI et al. 2006). The Orinoco river is also a major

reservoir of freshwater diversity and its past history must have been a fundamental factor in shaping the communities of organisms that inhabit the northern Neotropics. The total area of Venezuela is little over 900.000 km<sup>2</sup>, and from it a contribution to the understanding of the biochronology of South American vertebrates, so much biased towards the Southern cone, is expected.

The first step to study evolutionary patterns in deep time is describing the paleobiodiversity. In this collection of papers, we continue our ongoing efforts to study Venezuelan vertebrate paleontology by bringing into print descriptions and reviews of taxa from a geochronology sequences in different sedimentary basins and paleoenvironments (AGUILERA 2004, 2006; SÁNCHEZ-VILLAGRA & CLACK 2004; SÁNCHEZ-VILLAGRA 2006). Besides the descriptions of the results of our own collecting efforts, we have organized the study of material in existing collections mostly in the cities of Coro, Uru-

**Fig. 1.** The classic Urumaco locality of “El Mamón”, where many significant fossil vertebrates have been found and where some of the early oil exploration in the area was conducted. Photo courtesy of Fernando Acosta (Universidad Nacional Experimental Francisco de Miranda).



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maco, Caracas, and Maracaibo. Collaborations with experts on different taxonomic groups have made this possible, and we are grateful to the invited authors for their excellent contributions.

We thank Michael Amler and Oliver Rauhut for the opportunity to publish contributions on this fauna in a single issue of this journal. We would like to especially thank our colleagues Alfredo Carlini and Ken Johnson for their great input in this phase of this project, and our colleagues in the field, Rodolfo Sánchez, Cathy Villalba, Roberto Lozsán, and Alfredo Zurita, for their hard work and comradeship. We also thank the financial support of the University of Zürich, of the “Fonds zur Förderung des akademischen Nachwuchses (FAN) des Zürcher Universitätsvereins (ZUNIV)” for supporting T. Scheyer and the work in the Mesozoic and of the Universidad Nacional Experimental Francisco de Miranda, which made this work possible.

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